

We Claim:

1. A fuel rod testing assembly, comprising:

a plurality of measuring devices each having a sensing arm with a laterally deflectable free end;

a measuring head carried on said free end of said sensing arm, said measuring head having a sensor housing and a sensing tip disposed on said sensor housing;

a layer thickness measuring probe integrated in said sensor housing for measuring a thickness of a layer on a fuel rod; and

a carrier body carrying said measuring devices and being mounted on a plurality of guide rolls disposed to be guided along the fuel rod.

2. The fuel rod testing assembly according to claim 1, wherein said layer thickness measuring probe comprises a coil arrangement connected to an eddy current detector.

3. The fuel rod testing assembly according to claim 1, wherein said layer thickness measuring probe is disposed inside said sensor housing, behind said sensing tip.

4. The fuel rod testing assembly according to claim 1, wherein said sensing tip is made from diamond.
5. The fuel rod testing assembly according to claim 1, wherein said sensing arm is secured to said carrier body via a bending joint, and a sensor is disposed for recording a bending angle of said bending joint.
6. The fuel rod testing assembly according to claim 1, wherein said sensing arm is a deflectable spring steel sheet.
7. The fuel rod testing assembly according to claim 1, which further comprises a strain gauge disposed on said sensing arm.
8. The fuel rod testing assembly according to claim 1 configured for testing any of a number structural parts of a nuclear engineering installation.
9. The fuel rod testing assembly according to claim 8 configured for testing a fuel rod, a fuel assembly channel, or a spacer of the nuclear engineering installation.